

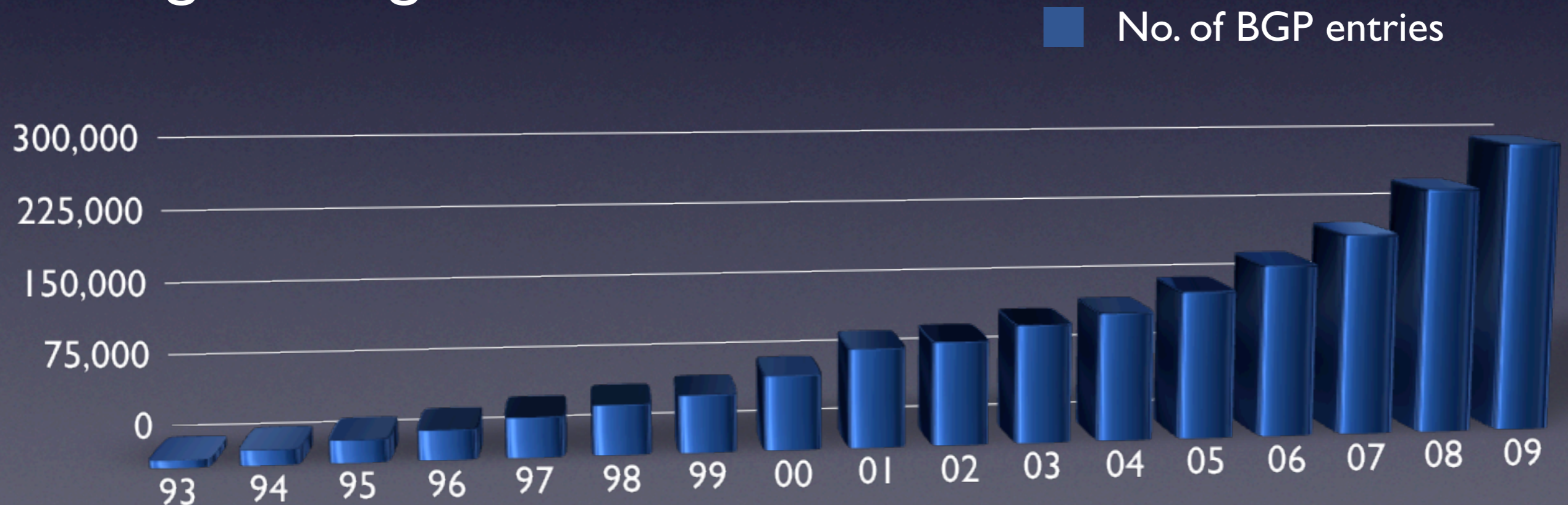
# Implementing OpenLISP with LISP+ALT

Attila de Groot

# Problem:

## BGP routing table

- 300.000 entries
- Entries used to load balance
- Updates used for traffic engineering



# Solution:

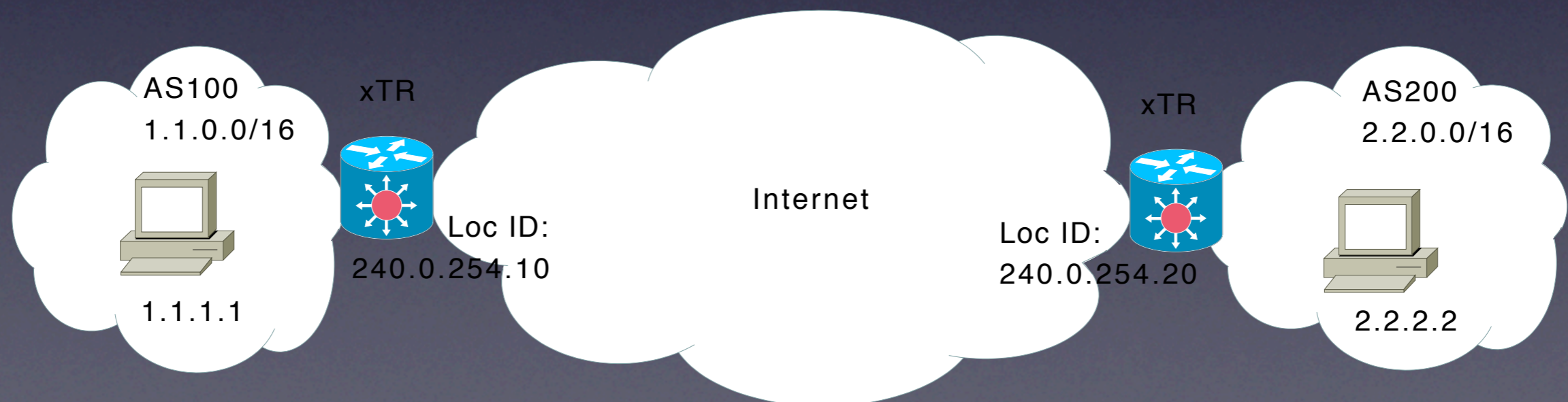
## Locator ID split

- Ip-address used as locator and id
- Use separate addressing for location and endpoints
- Mapping table for location -- endpoint

# Protocol:

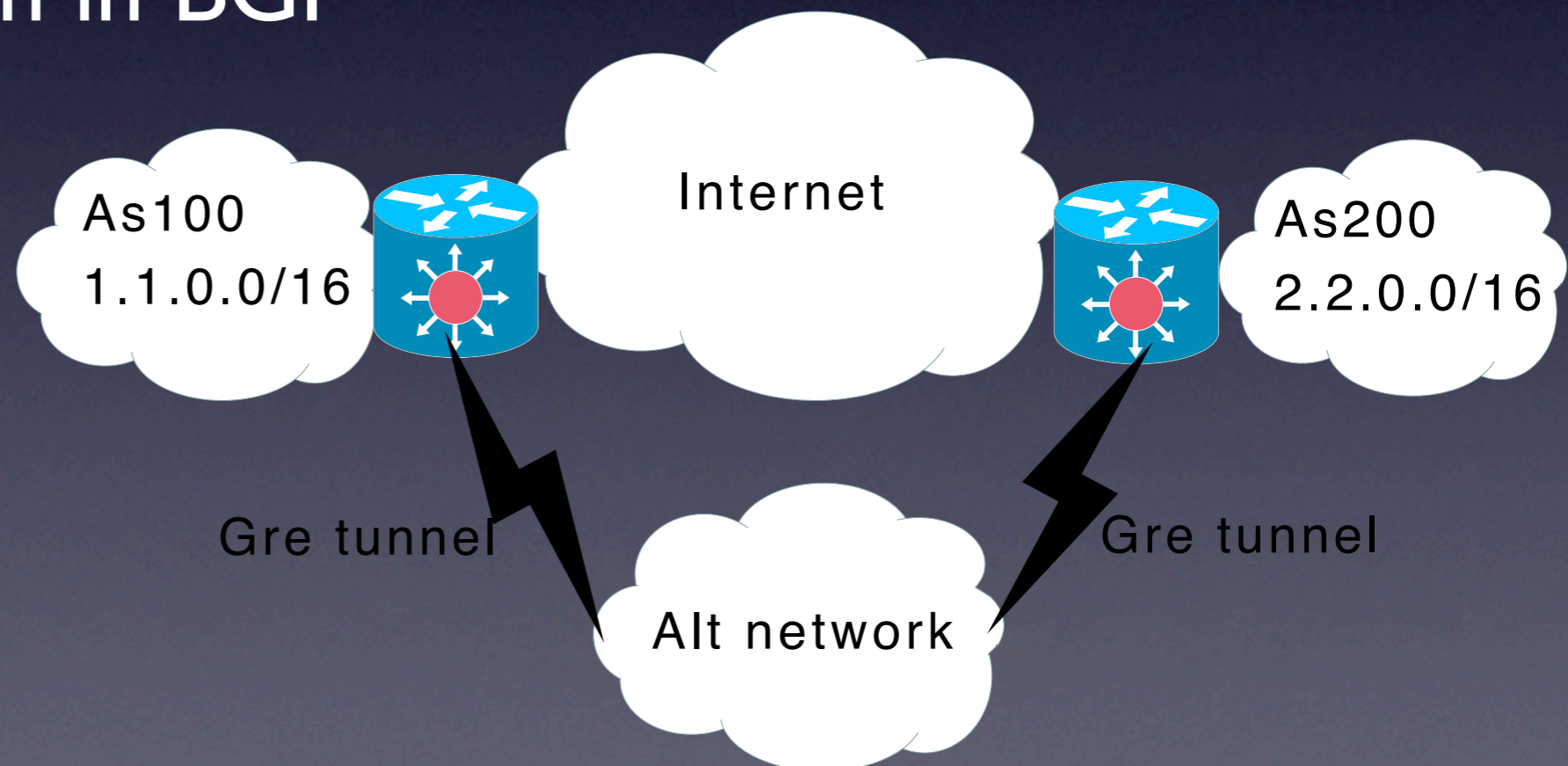
## Locator ID separation protocol

- Encapsulation solution
- Separate addressing for locators and endpoints
- Mapping table request & reply



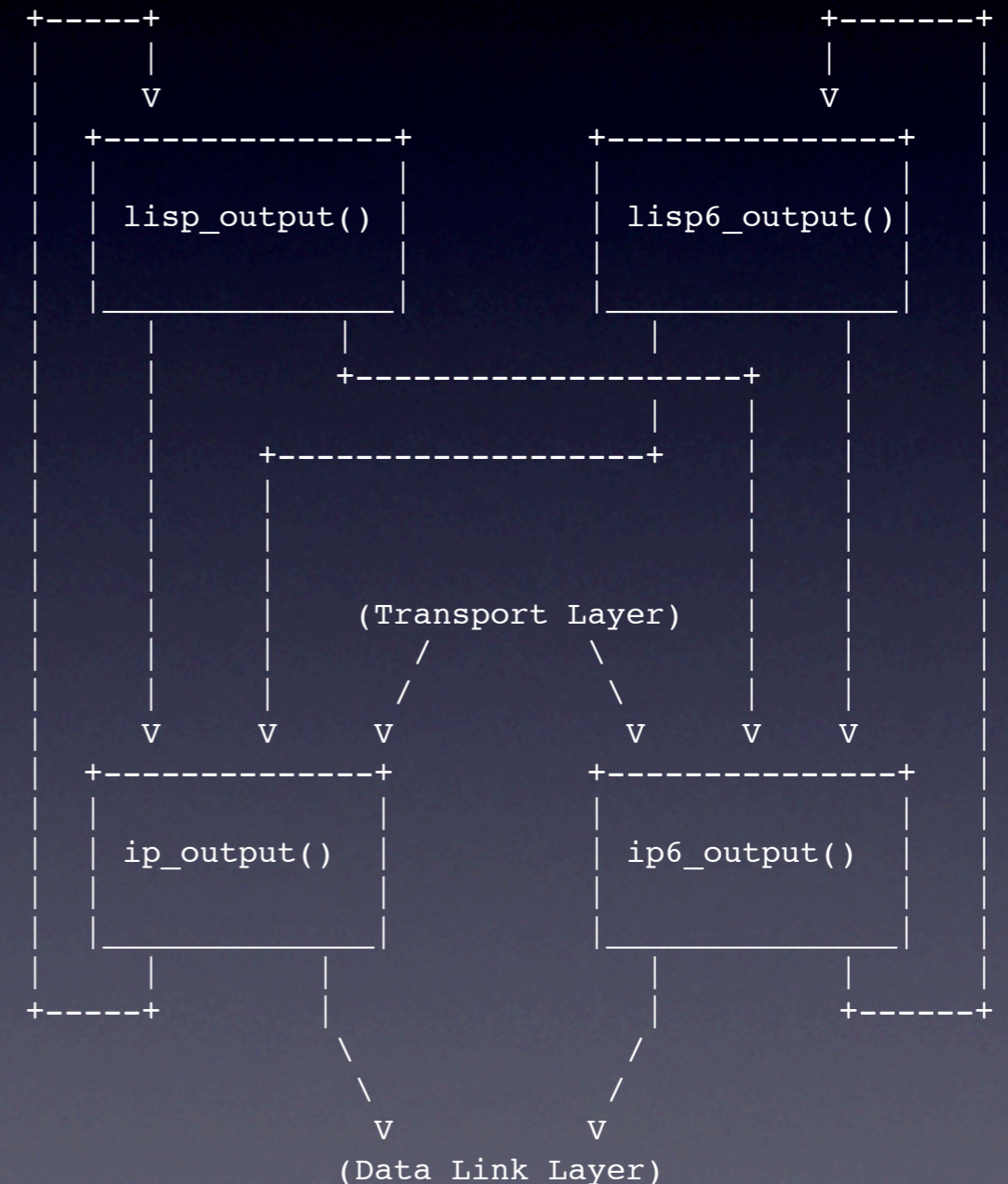
# LISP + ALT

- Overlay network
- Based on standard protocols (GRE, BGP)
- More aggregation in BGP



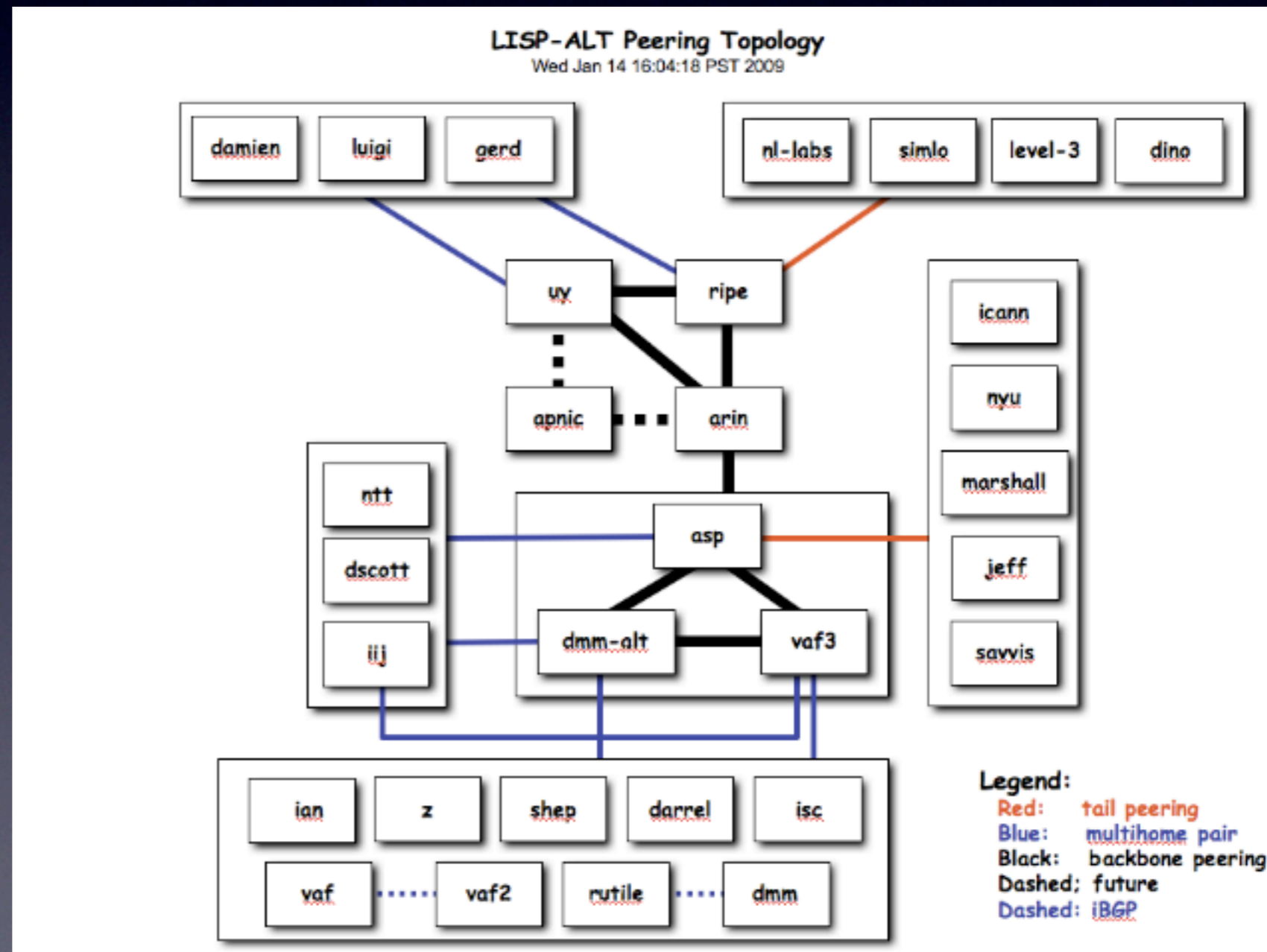
# OpenLISP

- FreeBSD implementation
- Kernel patch of IP stack
- Kernel API for mapping table management

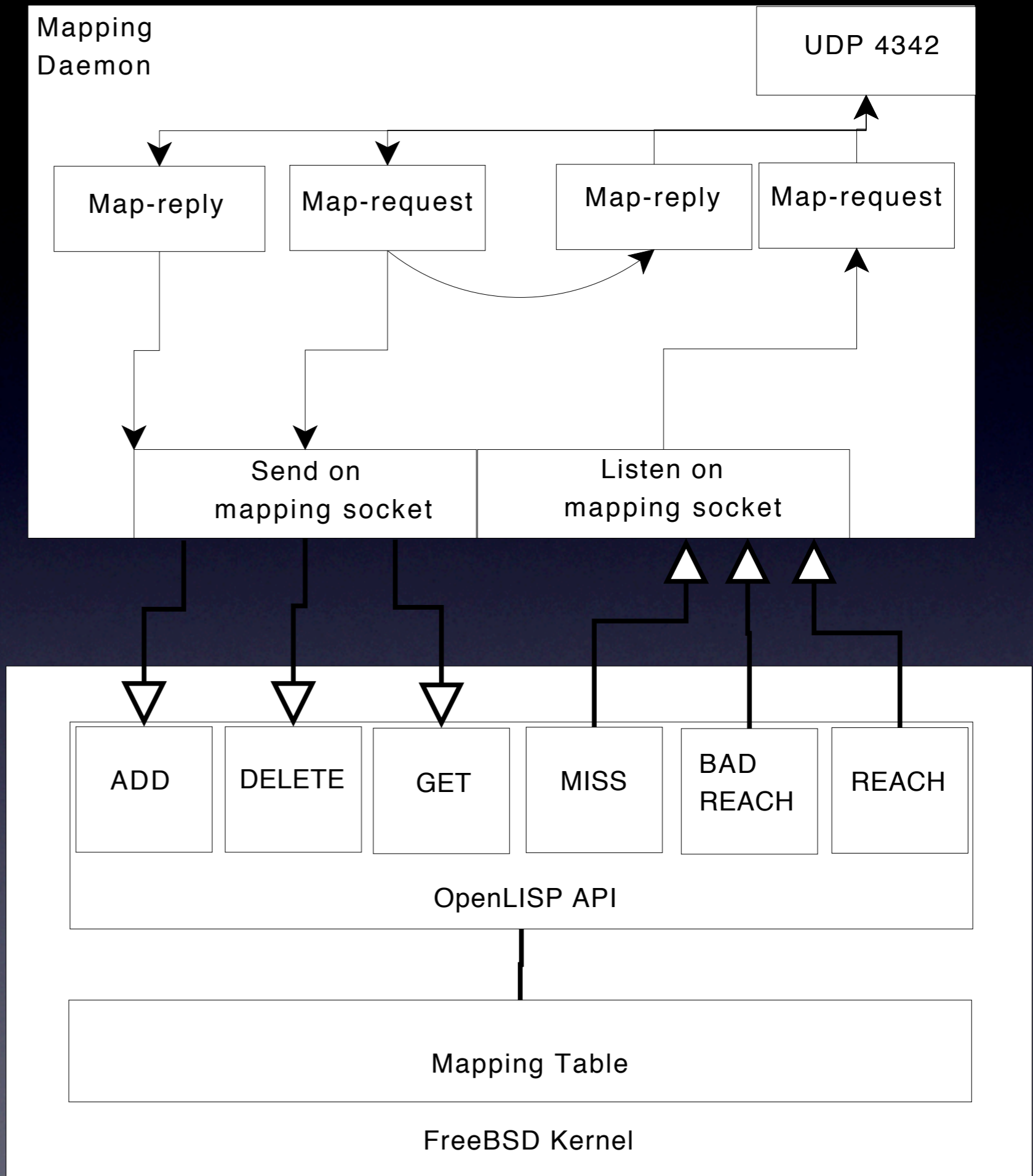
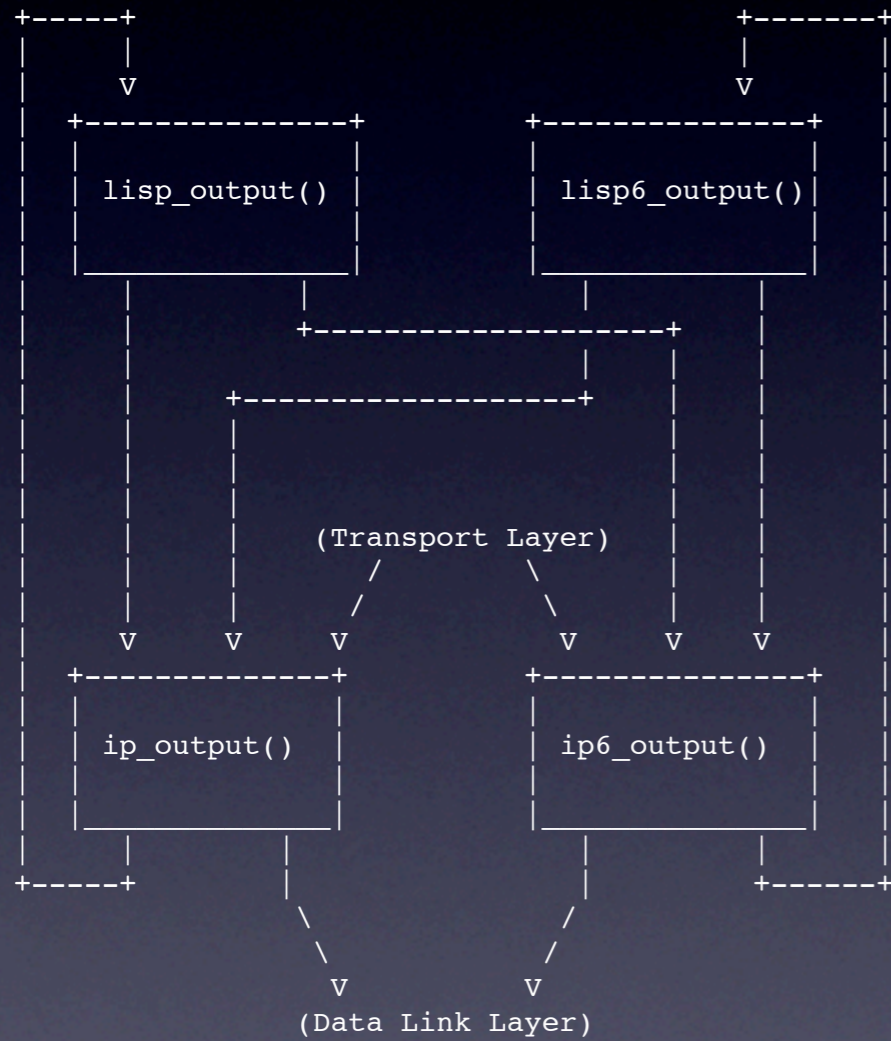


# OpenLISP + ALT

- GRE, FreeBSD GRE
- BGP, Quagga
- Mapping messages to ALT network
- LISP4



# MapD





# Conclusion

- OpenLISP on with LISP+ALT not yet possible
- Separate Daemon needed
- Most building blocks available

# Questions

